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September 13, 2007

VIA FACSIMILE ONLY

Examiner Hong Kim
United States Patent and Trademark Office
phone: 571-272-4181
fax: 571-273-4181

Application No. 10/788,725–Support for amendments

Dear Examiner Hong Kim:

During our telephone conference today, you asked me to send a fax to you outlining the support for the amendments to the specification and drawings proposed by Applicant in the Amendment after Allowance filed July 31, 2007.

For your reference, I have included a marked-up version of paragraph [0018] below, showing the proposed amendments:

[0018] FIG. 3 is a diagram that illustrates reading from the semi-trace cache and FIG. 4 is a flow diagram 400 that shows functional operation of semi-trace cache 20. As shown in FIG. 4, block 402 shows that an instruction is fetched from the current line of semi-trace cache 20. At block 430, a determination is made whether the instruction is fetched from ICache and is a jump, branch, call, or return instruction. If the conditions of block 430 are met, the TCache portion is indexed with the address of the current instruction at block 431. The That fetched instruction is executed by processor 12 as indicated by block 404. At block 432, the current instruction is inserted into semi-trace cache 20 or a line buffer as discussed above. In block 406 a determination is made as to whether the executed instruction causes processor 12 to take a change in the flow-of-control. Different actions may be taken depending on whether processor 12 is running from the TCache portion or the ICache portion. For instance, when running from the TCache portion a change in flow-of-control may occur when a branch is mispredicted or an end of the line is reached. If there is no change in flow, then in block 408, a check is made to determine if the last instruction in the current line was fetched and executed. If the last instruction was not fetched then control is looped back to block 402.

The subject matter of the proposed amendments to paragraph [0018] are found in paragraph [0015] of the as-filed specification, which is copied below with the supporting passages appearing in bold:

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